

09/741,217

MS160074.01

AMENDMENTS TO THE CLAIMS

This listing of claims includes a complete listing of both allowed claims and amended claims and will replace all prior versions, and listings, of claims in the application:

RECEIVED
CENTRAL FAX CENTER

JUN 30 2004

LISTING OF CLAIMS

OFFICIAL

1. (Currently amended): A system of establishing a secure link among multiple users on a single machine with a remote machine, comprising:
a subsystem to filter traffic so that traffic from each user is separate, the subsystem comprising an Internet Key Exchange (IKE) module and a policy module, the IKE module adapted to provide User Mode negotiations in order to establish a secure link among users;
wherein the subsystem generates and associates a Security Association (SA) with at least one filter corresponding to the user and the traffic and employs the SA to establish the secure link.
2. (Original): The system of claim 1 being located on the single machine.
3. (Original): The system of claim 1 being located on the remote machine.
4. (Cancelled)
5. (Currently amended): The system of claim 1 [[4]], wherein the policy module is configured via Internet Protocol Security (IPSEC).
6. (Original): The system of claim 5, wherein filters are provided from the policy module in order to filter traffic associated with the single machine and the remote machine.

09/741,217

MS160074.01

7. (Original): The system of claim 6, wherein the single machine filter is associated with a communications port on the single machine.

8. (Original): The system of claim 7, wherein the remote machine determines filters dynamically to communicate with the filters associated with the single machine.

9. (Cancelled)

10. (Currently amended): The system of claim 1 [[9]], wherein the User Mode negotiations utilize keying material derived from Main Mode negotiations in order to provide the secure link among users.

11. (Original): The system of claim 10, wherein the User Mode enables a plurality of Quick Mode negotiations in order to provide the secure link among users.

12. (Original): The system of claim 11, wherein the User Mode negotiation further comprises an initiator packet including at least one of a user identification initiator, a security association attribute, a nonce initiator, a proxy source, and a proxy destination.

13. (Original): The system of claim 12, wherein the initiator packet further comprises a user identification responder.

14. (Original): The system of claim 11, wherein the User Mode negotiation further comprises a responder packet including at least one of a user identification responder, a security association attribute, and a nonce responder.

15. (Original): The system of claim 11, wherein the User Mode enables a plurality of authentication packets to be sent to authenticate among users.

09/741,217

MS160074.01

16. (Currently amended): A system of establishing a secure link between a first machine and multiple services on a second machine, comprising:

a subsystem to filter traffic so that traffic from each service is separate, the subsystem comprising a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in order to establish a secure link among users;

wherein the subsystem generates and associates a Security Association (SA) with at least one filter corresponding to the user and the service and employs the SA to establish the secure link.

17. (Original): The system of claim 16, wherein the subsystem further comprises an Internet Key Exchange module and a policy module to generate and associate the security association.

18. (Original): The system of claim 17, wherein the policy module is configured via Internet Protocol Security (IPSEC).

19. (Original): The system of claim 18, wherein filters are provided from the policy module in order to filter traffic associated with the first machine and the second machine.

20. (Original): The system of claim 19, wherein the first machine filter is associated with a communications port on the first machine.

21. (Original): The system of claim 20, wherein the second machine determines filters dynamically to communicate with the filters associated with the first machine.

22. (Currently amended): The system of claim 1 [[4]], wherein the IKE module is adapted to provide User Mode negotiations in order to establish a secure link between the services.

09/741,217

MS160074.01

23. (Original): The system of claim 22, wherein the User Mode negotiation further comprises an initiator packet including at least one of a user identification initiator, a security association attribute, a nonce initiator, a proxy source, and a proxy destination.

24. (Original): The system of claim 23, wherein multiple services are authenticated on the second machine by utilizing a policy look-up associated with service information relating to the initiator packet.

25. (Original): The system of claim 24, wherein if a multiple service authentication fails, the second machine initiates a User Mode negotiation.

26. (Currently amended): A method of establishing a secure link among multiple users on a single machine with a remote machine, comprising the steps of:
filtering traffic so that traffic from each user is separate;
utilizing an Internet Key Exchange (IKE) module and a policy module, the IKE module providing User Mode negotiations to establish a secure link among users;
negotiating and authenticating a Security Association (SA) with at least one filter corresponding to the user and the traffic; and
employing the SA to establish the secure link.

27. (Currently amended): A method of establishing a secure link between a first machine and multiple services on a second machine, comprising the steps of:
filtering traffic so that traffic from each service is separate;
employing a policy module and an Internet Key Exchange (IKE) module to provide User Mode negotiations to establish a secure link among users;
negotiating and authenticating a Security Association (SA) with at least one filter corresponding to the services and the traffic; and
employing the SA to establish the secure link.

09/741,217

MS160074.01

28. (Currently amended): A system for establishing a secure link among multiple users on a single machine with a remote machine, comprising:

means for filtering traffic so that traffic from each user is separate;

means for utilizing a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in establishing a secure link among users;

means for negotiating and authenticating a Security Association (SA) with at least one filter corresponding to the user and the traffic; and

means for employing the SA to establish the secure link.

29. (Currently amended): A system of establishing a secure link between a first machine and multiple services on a second machine, comprising:

means for filtering traffic so that traffic from each service is separate;

means for employing a policy module and an Internet Key Exchange (IKE) module to provide User Mode negotiations to establish a secure link among users;

means for negotiating and authenticating a Security Association (SA) with at least one filter corresponding to the services and the traffic; and

means for employing the SA to establish the secure link.

09/741,217

MS160074.01

30. (Currently amended): A computer readable medium having stored thereon computer executable components, comprising:

a component to filter traffic between a first machine, having multiple users, and a second machine so that traffic for the first machine is separated in accordance with the respective users; and

a component to generate and associate a Security Association (SA) with at least one filter, corresponding to at least one of the users and the respective traffic, and employs the SA to establish a secure link between the first and second machines, the component employing a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in order to establish a secure link among users.

31. (Currently amended): A data packet adapted to be transmitted between at least two processes, comprising:

a first component to filter traffic between a first process, associated with multiple users, and a second process so that traffic for the first process is separated in accordance with the respective users; and

a second component to generate and associate a Security Association (SA) with at least one filter, corresponding to at least one of the users and the respective traffic, and employs the SA to establish a secure link between the first and second processes, the second component utilizing a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in order to establish a secure link among users.

09/741,217

MS160074.01

32. (Currently amended): A computer readable medium having stored thereon computer executable components, comprising:

a component to filter traffic between a first machine, having multiple services, and a second machine so that traffic for the first machine is separated in accordance with the respective services; and

a component to generate and associate a Security Association (SA) with at least one filter, corresponding to at least one of the services and the respective traffic, and employs the SA to establish a secure link between the first and second machines, the component further comprising a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in order to establish a secure link among users.

33. (Currently amended): A data packet adapted to be transmitted between at least two processes, comprising:

a first component to filter traffic between a first process, associated with multiple services, and a second process so that traffic for the first process is separated in accordance with the respective services; and

a second component to generate and associate a Security Association (SA) with at least one filter, corresponding to at least one of the services and the respective traffic, and employs the SA to establish a secure link between the first and second processes, the second component including a policy module and an Internet Key Exchange (IKE) module adapted to provide User Mode negotiations in order to establish a secure link among users.

34. (Original): The data packet of claim 33, wherein at least one of the processes is executed by a distributed processing system.